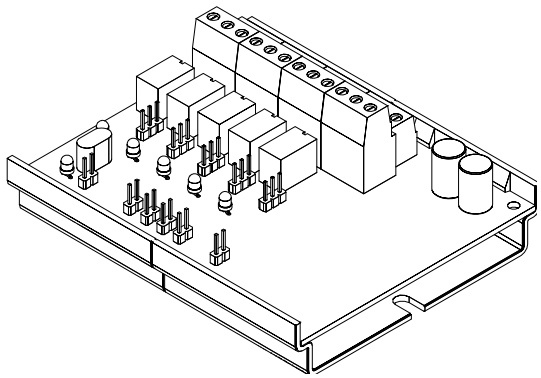
FSRRM24 Remote Relay Module Installation Sheet



Description

The FSRRM24 provides five Form C relays that you can configure as common relays, zone relays, or as programmable relays to use with F-series fire alarm control panels. In addition, you can configure the relays as dry contact relays or as 24 VDC output relays.

LEDs provide visual indication when each relay is energized and when the FSRRM24 is disabled.

The FSRRM24 includes a plastic snap track for mounting in an MFC-A cabinet.

FSRRM24 remote relay modules are configured using the jumpers described in the tables below.

Table 1: Disable output jumper

JP1	Description
ON	Disables all relays
OFF	Enables all relays

Table 2: Module type jumpers

JP2	JP3	JP4	JP5	Description
ON	OFF	OFF	OFF	Five programmable relays (common alarm or zone)
OFF	ON	OFF	OFF	Five zone relays (zones 6 to 10). This setting is ignored on 3-zone and 5-zone conventional F-Series control panels.
OFF	OFF	ON	OFF	Five zone relays (zones 1 to 5)
OFF	OFF	OFF	ON	Relay 1: Common alarm Relay 2: Common trouble Relay 3: Common supervisory Relay 4: Common monitor Relay 5: Common power

Note: Only one FSRRM24 module configured for common relay operation is allowed per peripheral group.

Table 3: Group selection jumper

J6	Description
ON	Selects peripheral group 1
OFF	Selects peripheral group 2

Notes: Only three FSRRM24 modules are allowed per peripheral group on 3- and 5-zone control panels. Only four FSRRM24 modules are allowed per peripheral group on 10-zone control panels.

Table 4: Output selection jumpers, J1 to J5

Position	Description
1 to 2	+24V output
2 to 3	Dry contact

Installation

Install the FSRRM24 according to the instructions provided below.

Caution: Make sure all power is disconnected from the panel before installing. Observe static-sensitive handling practices.

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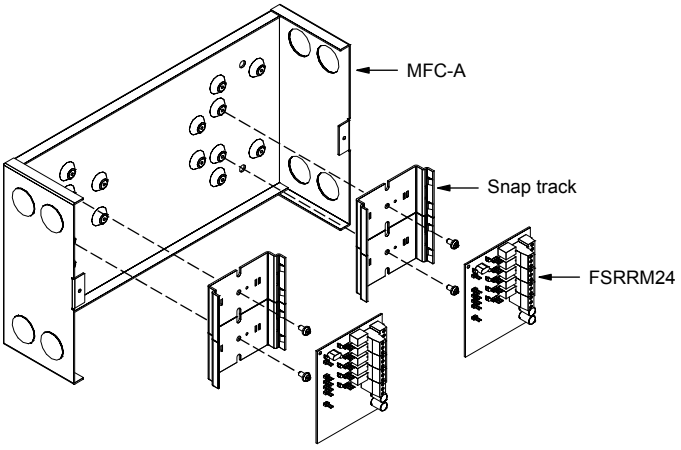
Figure 1: FSRRM24 mounting



To install the FSRRM24:

1. Mount the snap track on the MFC-A cabinet as shown in Figure 1. Only two FSRRM24 modules are allowed per MFC-A cabinet.
2. Insert the bottom edge of the FSRRM24 into the snap track then press the top edge in until it snaps into place.
3. Configure the jumpers.
4. Verify that all wiring is free of opens, shorts, and ground faults.
5. Connect the data and power wiring as shown Figure 2.
6. Energize the panel and confirm that all relays are in the correct state before connecting the field wiring.

   Note: Normally all relays are deenergized. If a jumper is installed on JP5, relays 1 and 5 are energized.
7. Connect the relay output wiring as shown Figure 3. Make sure connection will not adversely affect controlled devices (e.g. elevators, fans, etc.).

Note: FSRRM24 remote relay modules will not operate properly until detected by the control panel. For more information, see the technical reference manual listed inside the control panel door.

Wiring

Figure 2: Data and power wiring

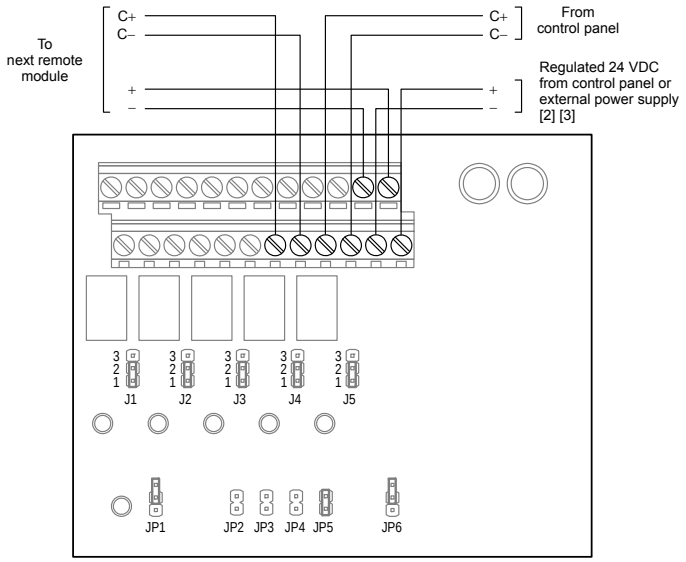
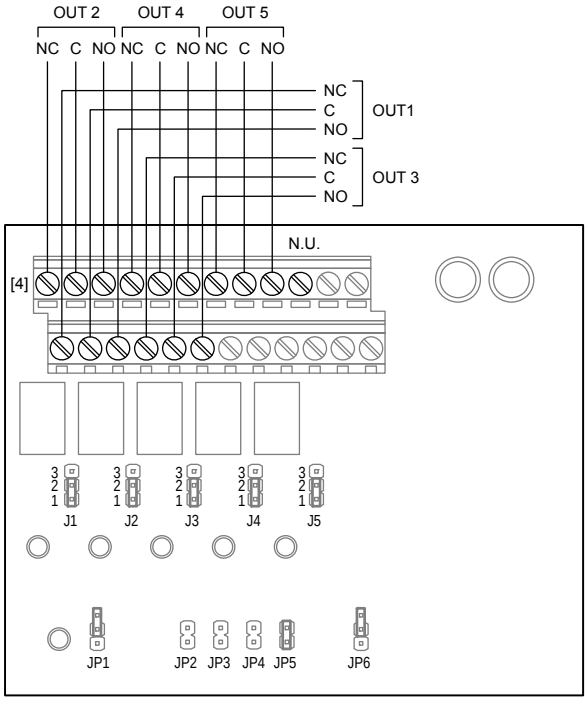


Figure 3: Relay output wiring



Notes

1. All wiring is supervised and power-limited.

[2] AUX power supplied by the control panel can't exceed 0.5 A. If more than 0.5 A is required, you must use a power-limited and regulated 24 VDC auxiliary/booster power supply that is UL/ULC Listed for fire protective signaling systems.

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[3] If powered from an external supply, the supply must be installed in the same room as the control panel and their 24 VDC commons (−) wired together.

4. Relay outputs are not supervised and do not provide current limiting. Connect relays only to power-limited sources.

5. Terminal marking indicates contact position when the relay is deenergized.

Specifications

Voltage	18.8 to 27.3 VDC
Current	
Standby	10 mA (zone relay operation) 26 mA (common relay operation)
Alarm	70 mA
Circuit capacitance	0.03 µF, max.
Circuit resistance	13 Ω, max.
Ground fault impedance	0 Ω
Relay outputs	
Quantity	5
Type	Common, zone, or programmable, and dry contact or +24V output via jumper selection
Style	Form C
Contact rating	30 Vdc at 1 A (resistive load)
Wire size	12 to 18 AWG (0.75 to 2.5 sq mm)
Mounting	MFC-A cabinet
Operating environment	
Temperature	0 to 49 °C (32 to 120 °F)
Relative humidity	0 to 93% noncondensing

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